## IN THE CLAIMS

The following slate of claims represents the present status of all claims in the application including claims currently amended.

1-69 (Cancelled).

70 (Previously Presented). A propellant composition comprising a reduced energy binder, an oxidizer, and a fuel wherein

- (a) said reduced energy binder includes a high molecular weight polyester polyol binder polymer including an amount of cured poly(1, 4-butanediol adipate) having a molecular weight (Mwn) above 4000 (uncured) and cured using an isocyanate curing agent, and an amount of one or more energetic plasticizers wherein the plasticizer to polymer ratio is less than 1.6:1;
- (b) said oxidizer consists of a material selected from the group consisting of ammonium perchlorate and a mixture of ammonium perchlorate and sodium nitrate, and
- (c) said fuel is aluminum.

71 (Previously Presented). A propellant composition as in claim 70 wherein said reduced energy binder further comprises an amount of inert plasticizer material.

72 (Previously Presented). A propellant composition as in claim 71 wherein said inert plasticizer is triacetin.

73 (Previously Presented). A propellant composition as in claim 70 wherein the one or more energetic plasticizers are selected from the group consisting of nitrate esters of the group consisting of n-butyl-2-nitratoethyl nitramine; trimethylolethane trinitrate; triethyleneglycol dinitrate; butanetriol trinitrate; nitroglycerin and combinations thereof.

74 (Previously Presented). A propellant composition as in claim 71 wherein the one or more energetic plasticizers are selected from the group consisting of nitrate esters of the group consisting of n-butyl-2-nitratoethyl nitramine; trimethylolethane trinitrate; triethyleneglycol dinitrate; butanetriol trinitrate; nitroglycerin and combinations thereof.

75 (Previously Presented). A propellant composition as in claim 72 wherein the one or more energetic plasticizers are selected from the group consisting of nitrate esters of the group consisting of n-butyl-2-nitratoethyl nitramine; trimethylolethane trinitrate; triethyleneglycol dinitrate; butanetriol trinitrate; nitroglycerin and combinations thereof.

76(Previously Presented). A propellant composition as in claim 73 wherein the plasticizer is selected from the group consisting of nitroglycerin, n-butyl-2-nitratoethyl nitramine, trimethylolethane trinitrate and combinations thereof.

77(Previously Presented). A propellant composition as in claim 74 wherein the plasticizer is selected from the group consisting of nitroglycerin, n-butyl-2-nitratoethyl nitramine,

trimethylolethane trinitrate and combinations thereof.

78 (Previously Presented). A propellant composition as in claim 75 wherein the plasticizer is selected from the group consisting of nitroglycerin, n-butyl-2-nitratoethyl nitramine, trimethylolethane trinitrate and combinations thereof.

79 (Previously Presented). A propellant composition as in claim 78 wherein the plasticizer is trimethylolethane trinitrate.

80 (Previously Presented). A propellant composition as in claim 70 wherein the poly (1, 4-butanediol adipate) has a molecular weight  $(MW_n)$  above 6,000 (uncured).

81(Previously Presented). An improved high solid propellant composition comprising by weight:

- (a) about 10% cured poly(1, 4-butanediol adipate) having a molecular weight  $(Mw_n) \ge 6000$  (uncured) and cured using an isocyanate curing agent;
- (b) about 11% nitroglycerin plasticizer;
- (c) about 2.5% triacetin plasticizer;
- (d) about 22% aluminum; and
- (e) about 53% ammonium perchlorate oxidizer.

82(Previously Presented). An improved high solids propellant composition comprising by weight:

(a) about 7% cured poly(1, 4-butanediol adipate) having a molecular weight,  $(Mw_n) \ge 6000$  (uncured) and cured using an isocyanate curing agent;

- (b) about 6.5% n-butyl-2-nitratoethyl nitramine;
- (c) about 1.4% triacetin;
- (d) about 22% aluminum;
- (e) about 60% ammonium perchlorate; and
- (f) about 2% dicyandiamide.
- 83 (Previously Presented). An improved high solids propellant composition comprising by weight:
  - (a) about 11% cured poly(1, 4-butanediol adipate) having a molecular weight  $(MW_n)$  of about 6,000 (uncured) and cured using an isocyanate curing agent;
  - (b) about 12% plasticizer selected from the group consisting of nitroglycerin and trimethylolethane trinitrate and combinations thereof;
  - (c) about 22% aluminum; and
  - (d) about 53% ammonium perchlorate.
- 84(Previously Presented). An improved high solids propellant composition comprising by weight:
  - (a) about 11.3% cured poly (1, 4-butanediol adipate) cured from a tetramethylene adipate prepolymer (MW $_n$ ) of about 6,200 (uncured) and cured using an isocyanate curing agent;
  - (b) about 12.2% nitroglycerin plasticizer;
  - (c) about 22% (30µ) aluminum; and
  - (d) about 53% (200µ) ammonium perchlorate oxidizer.
  - 85 (Previously Presented). The propellant composition of

claim 83 wherein (d) comprises about 30% ammonium perchlorate and about 22% sodium nitrate.